Docket No.: 08935-216001

WHAT IS CLAIMED IS:

2

		· ·
1	1.	A method for applying material in the manufacture of a battery, comprising
2		applying the material in the form of a spray generated from a vibratory
3		nebulizer.
1	2.	The method of claim 1 wherein the material is an electrolyte.
1	3.	The method of claim 2 comprising
2		providing a separator, and
3		applying the electrolyte to the separator.
1	4.	The method of claim 3 comprising
2		providing the separator in a battery can prior to said applying.
1	5.	The method of claim 4 comprising
2		applying the electrolyte such that substantial pooling of the electrolyte in the
3	botto	om of the can is avoided.
1	6.	The method of claim 1 wherein the material is a film-forming material suitable as a
2	separator.	
1	7.	The method of claim 6 comprising
2		providing a cathode, and
3		applying the film-forming material to at least a portion of the cathode.
1	8.	The method of claim 7 comprising
2		providing the cathode in a can prior to applying said film-forming material.
1	9.	The method of claim 8 comprising forming a film from said material by application

of a second component, said second component being applied as a spray.

- 1 10. The method of claim 9 wherein the second component is applied sequentially with the
- 2 film-forming material.
- 1 11. The method of claim 9 wherein the second component is applied simultaneously with
- 2 the film-forming material.
- 1 12. The method of claim 6 wherein the film-forming material is PVA.
- 1 13. The method of claim 12 wherein film formation of facilitated by application of
- 2 electrolyte.
- 1 14. The method of claim 13 wherein the PVA and electrolyte are applied sequentially.
- 1 15. The method of claim 13 wherein the PVA and electrolyte are applied simultaneously.
- 1 16. A method for applying electrolyte in the manufacture of a battery, comprising applying the electrolyte in the form of a spray.
- 1 17. The method of claim 16 wherein the average droplet size is about 5 micron to about
- 2 30 micron.
- 1 18. The method of claim 17 wherein the spray velocity is about 3 to about 5 inch/sec.
- 1 19. The method of claim 16 comprising
- 2 providing a separator, and
- applying the electrolyte to the separator.
- 1 20. The method of claim 19 comprising
- providing the separator in a battery can prior to said applying.

Docket No.: 08935-216001

1	21.	The method of claim 20 comprising	
2		applying the electrolyte such that substantial pooling of the electrolyte in the	
3	bottom of the can is avoided.		
1	22.	The method of any one of claims 16 to 21 wherein said spray is formed by a vibratory	
2	nebuli	izer.	
1	23.	A method for applying a separator in the manufacture of a battery, comprising	
2		applying a film-forming system capable of forming a film, said system	
3		including a first component and a second component, and applying said first	
4		component and second component simultaneously as a spray.	
1	24.	The method of claim 23 wherein the droplet size is about 5 micron to about 30	
2	micron.		
1	25.	The method of claim 23 wherein the spray velocity is about 3 to about 5 inch/sec.	
1	26.	The method of claim 23 comprising	
2		providing the cathode in a can prior to applying said film-forming system.	
1	27.	The method of claim 26 wherein the film-forming system includes PVA.	
1	28.	The method of claim 27 wherein film-forming system includes electrolyte.	
1	29.	The method of claim 28 wherein the system is a premixed solution of about 10% to	
2	abou	at 15% PVA in KOH electrolyte.	
1 2	30. nebu	The method of any one of claims 23 to 29 wherein said spray is formed by a vibratory alizer.	

1	31.	A method for applying material in the manufacture of a battery, comprising	
2		selecting a material to be applied, and	
3		applying the material in the form of a spray having an average droplet size of	
4	about	1 micron to about 75 micron.	
1	32.	The method of claim 31 wherein the droplet size is about 5 micron to about 30	
2	micron.		
1	33.	The method of claim 31 wherein the spray velocity is about 10 inch/sec. or less.	
1	34.	The method of claim 31 wherein the spray velocity is about 3 to about 5 inch/sec.	
1	35.	The method of claim 31 wherein the material is an electrolyte.	
1	36.	The method of claim 35 comprising	
2		providing a separator, and	
3		applying the electrolyte to at least a portion of the separator.	
1	37.	The method of claim 36 comprising	
2		providing the separator in a battery can prior to said applying.	
1	38.	The method of claim 37 comprising	
2		applying the electrolyte such that substantial pooling of the electrolyte	
3		in the bottom of the can is avoided	
1:	39.	The method of any one of claims 31 to 38 wherein said spray is formed by a vibratory	
-2	nebulizer.		
1	40.	The method of claim 31 wherein the material is a film-forming material suitable as a	
2	separator.		

Docket No.: 08935-216001

- 1 41. The method of claim 40 comprising
- 2 providing a cathode, and
- applying the film-forming material to at least a portion of the cathode.
- 1 42. The method of claim 41 comprising
- providing the cathode in a can prior to applying said film-forming material.
- 1 43. The method of claim 40 comprising facilitating film-forming by application of a
- 2 second component, said second component being applied as a spray.
- 1 44. The method of claim 43 wherein the second component is applied sequentially with
- 2 the film-forming material.
- 1 45. The method of claim 43 wherein the second material is applied simultaneously with
- 2 the film-forming material.
- 1 46. The method of claim 40 wherein the film-forming material is PVA.
- 1 47. The method of claim 46 wherein the film-forming is facilitated by application of
- 2 electrolyte.
- 1 48. The method of claim 47 wherein the PVA and electrolyte are applied sequentially.
- 1 49. The method of claim 47 wherein the PVA and electrolyte are applied simultaneously.
- 1 50. The method of any one of claims 42-49 wherein said spray is formed by a vibratory
- 2 nebulizer.